



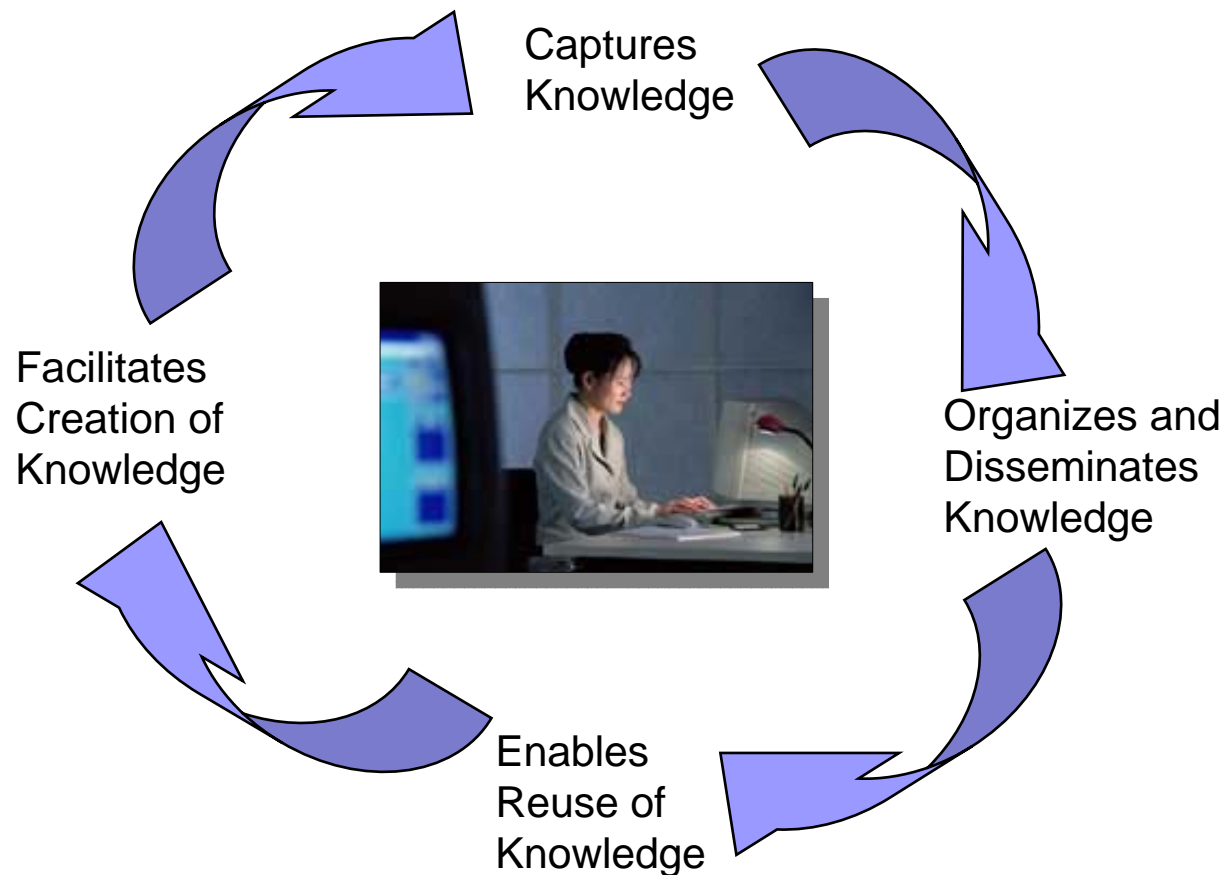
Creating a Learning Organization at NASA

Manson Yew, Douglas Hughes,
Keri Murphy, Gena Henderson,
and Jeanne Holm

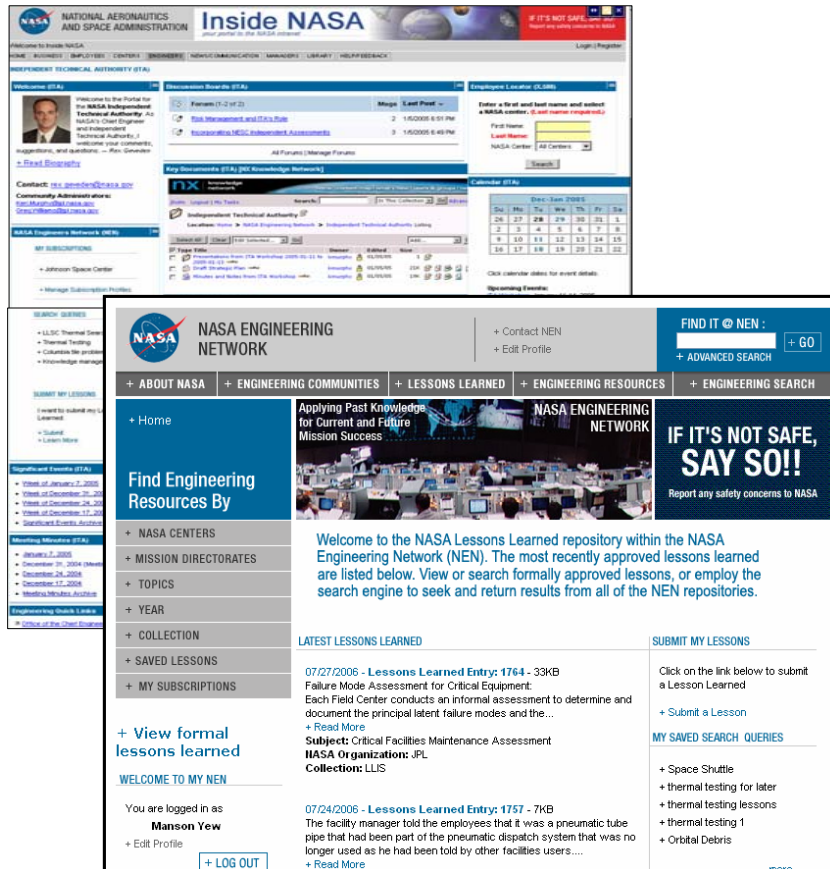
July 18, 2007

Introduction to the NASA Engineering Network

- Every engineer needs access to all NASA engineering knowledge



Introduction to the NASA Engineering Network



- The Office of the Chief Engineer created the NASA Engineering Network to be a robust, flexible knowledge management system
 - Networks users to NASA's vast knowledge resources, both documented and tacit
 - Provides a multi-purpose community management tool, task management tool, and lessons learned tool
 - Allows for managing and sharing of discipline standards, requirements and processes with a minimum of labor
- NEN integrates a content management system, portal, search engine, and engineering community management system in support of engineering discipline communities and NASA lessons learned

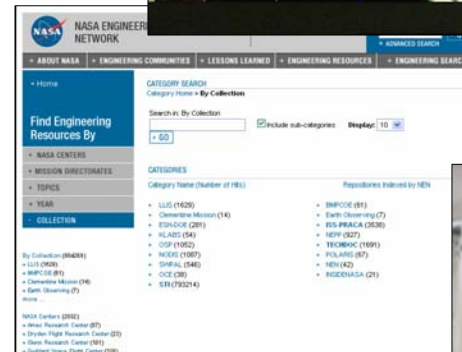
Key Knowledge Resource – NASA Lessons Learned

The image displays three overlapping screenshots of the NASA Engineering Network (NEN) website. The top-left screenshot shows the NEN home page with navigation tabs (ABOUT NASA, ENGINEERING COMMUNITIES, LESSONS LEARNED, ENGINEERING RESOURCES, ENGINEERING SEARCH) and a sidebar for finding resources by NASA Centers, Mission Directorates, Topics, Year, Collection, Saved Lessons, and My Subscriptions. The top-right screenshot shows a lesson entry titled '07/27/2006 - Lessons Learned: Failure Mode Assessment for Each Field Center conducts an document the principal intent to' with a subject of 'Critical Facilities Mar NASA Organizations JPL Collection: LLIS'. The bottom screenshot shows a 'SUBMIT A LESSON' form with fields for Lesson Details, Submission By (First Name, Last Name, Phone Number, Email Address), and Point of Contact (First Name, Last Name, Phone Number, Email Address).

- 1,602 fully vetted Lessons Learned going back to 1972
- Managed by Lessons Learned Steering Committee with representation from all 10 NASA Centers
- Represents NASA's highest validity of reusable knowledge
- But, not a complete body of NASA knowledge

Key Knowledge Resource -- Engineering Databases

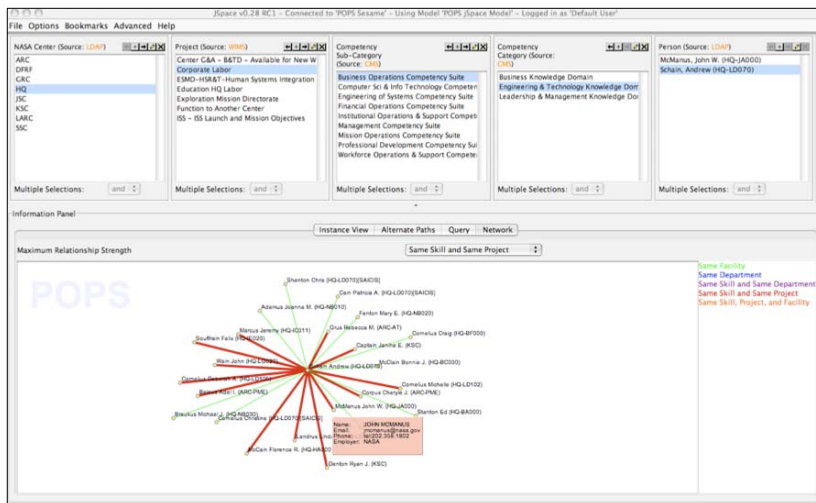
- NASA has a wealth of data management systems, problem reporting and corrective action systems, document management systems, and technical report systems
- Extensive set of NASA knowledge
- Validity issues, context issues, seemingly never-ending number of databases



Key Knowledge Resource – Subject Matter Experts



- NASA employs over 46,000 civil servant and contractor engineers representing some of the nation's best and most educated intellectual resources
- Our best knowledge resource
- Not easily discovered, have something better to do than sit around waiting for questions

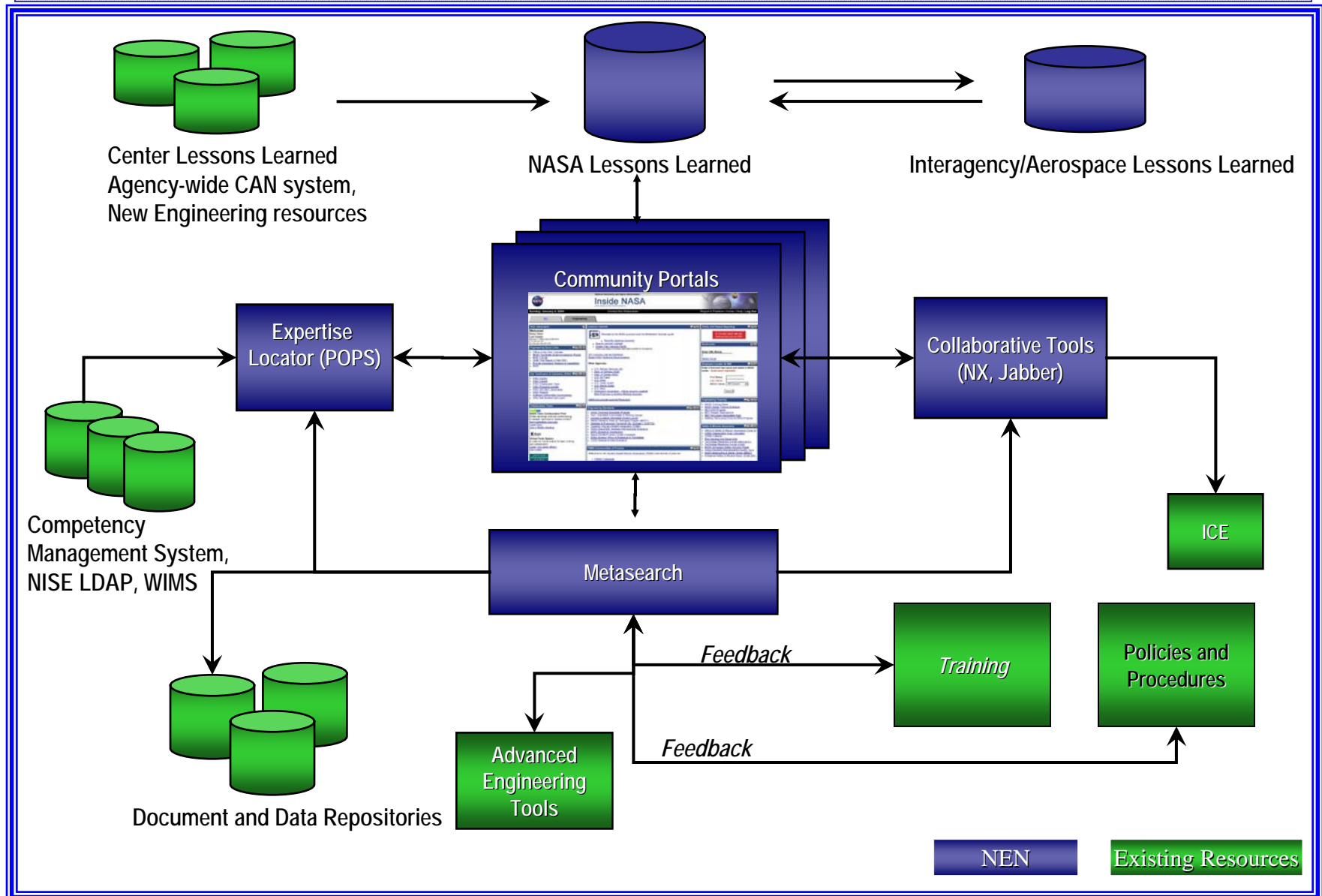


Industry Benchmarking

- Formal benchmarking meetings conducted with the following organizations have led to NEN architecture as recognized best practice
- In addition, meta-analysis of published case studies and informal benchmarking also contributed to key architectural decisions and choices

The Aerospace Corporation	Department of Commerce
US Army	Rand Corporation
MITRE	EPRI
Lockheed Martin Space Systems	JHU/Applied Physics Lab
Raytheon	Department of Homeland Security
Nuclear Regulatory Commission	Department of Energy
Intel	Procter and Gamble
Boeing Canoga Park	Rolls Royce Aerospace
Harvard University Learning Innovations Laboratory	Ball Aerospace
Australian Taxation Office	

Functional Architecture of NEN



Finding Solutions

FIND IT @ NEN :

[+ ADVANCED SEARCH](#)

LESSONS LEARNED KNOWLEDGE NETWORK

+ ABOUT LLKN + MY LLKN + COMMUNITIES + EXPERT LOCATOR

Find Lesson Learned By

- + NASA CENTERS
- + NASA ENTERPRISE
- + CROSSCUTTING PROCESSES
- + TOPICS
- + BY YEAR
- + BY COLLECTION

Welcome to the new Lessons Learned Knowledge Network. This online knowledge management system brings you NASA's official lessons learned as well as a variety of online knowledge management tools for discovering NASA's vast engineering resources.

LATEST LESSONS LEARNED

03/11/2004 - ATCS, PVATCS - 12-Aug-01 - 14KB
 ISS Problem Report: 1 Page of Prepared on 12- APR- 2004 3538 Level: 2 PR Status: O ECD: Closure Signatures 0 / 4 Concurrences: 0 / 2 PPD: 3
 Manufacturer's Name: Manufacturer's Cage Code: Waiver/...
 + Read More
Creator: Marisela Crowe
NASA Organization: ISS-MER
Collection: PRACA

03/11/2004 - ECLSS, RUSSIAN SEGMENT - 15-Oct-03 - 13KB
 8,041,000 Nonconforming Part Number: TBD Part Serial/ Lot Number:

LOG IN TO MY LLKN

Username:
Password:

WHY REGISTER?
[Take a tour and discover the](#)

- Search across multiple repositories
- Faceted navigation to drill down into results

NASA ENGINEERING NETWORK

+ Contact NEN + Edit Profile

FIND IT @ NEN :

[+ ADVANCED SEARCH](#)

+ ABOUT NASA + ENGINEERING COMMUNITIES + LESSONS LEARNED + ENGINEERING RESOURCES + ENGINEERING SEARCH

Find Engineering Resources By

+ NASA CENTERS
 + MISSION DIRECTORATES
 + TOPICS
 + YEAR
 + COLLECTION
 + SAVED LESSONS
 + MY SUBSCRIPTIONS

SIMPLE SEARCH

Enter Search Term:

Sort by: Relevance
 Display: 10
 Datasource: All

RESULTS

Lessons Learned: 1 - 10 of 200 returned, 1953 hits (1 seconds)
 + Prev 1 2 3 4 5 + Next

MIL-STD-883 - Department Of Defense Test Method Standard Mi... - 4.4MB
 40%
 10 Mar 03
 + Find Similar
Description: Class M devices shall use the conditions specified in the test methods herein for class level B product. Intended use Provisions for the use of MIL-STD-883 Abbreviations Classification of tests Orientation Electrical test...
Creator: Non-NEPP, Author
Collection: NEPP

MIL-STD-750 - Department Of Defense Test Method Standards Se... - 5.7MB
 40%
 10 Mar 03
 + Find Similar
Description: This standard establishes uniform methods for testing semiconductor devices, including basic environmental tests to determine resistance to deleterious effects of natural elements and conditions surrounding military operations...
Creator: Non-NEPP, Author
Collection: NEPP

Lead-Free Soldering for Space Applications TRO-BKO (Appdx's ... - 2.7MB
 40%
 20 Jun 05
 + Find Similar
Description: Free Solder Joint Reliability of High-Density Packages APEX-CD 18. Lead-Free Design - High-Density Packages The High-Density Packaging Users Group (HDPUG) has conducted a substantial study of solder joint reliability of high-density...
Creator: Kessel, Kurt
Collection: NEPP

Fifty Years of Flight Research: An Annotated Bibliography of ... - 10.0MB
 40%
 + Find Similar
Description: C n ? AC n ?a = C1 ? AC1 ? a C n ? = C n ? - 7 0 Iz C1 ? b: * Whitcomb area rule Viewing moment Vortical flow structure concept F.S. 142 180° 270° 90° or Nose ring pressure orifices F.S. 70 F.S. 85 F.S. 107 F.S. 142 F.S. 184...
Creator: David F. Fisher
Collection: NTRS:DTRS

Effects of varied loading paths on fatigue endurance part 1 ... - 13.7MB
 39%
 31 Dec 64
 + Find Similar
Description: No Abstract Available
Creator: G. P. Tilly
Collection: NTRS:ARC

311-NIST-001 Rev. A - 879KB
 39%
 17 Jun 03
 + Find Similar
Description: 2 (0) 20% of contacts, Four Min Notes at end of Table 2H Section B 311-NIST-001 Connectors Page 13 of 42 Revision A (08/96) Table 2B SCREENING REQUIREMENTS FOR D-SUBMINIATURE CONNECTORS (REF MIL-C-24308, S-311-P-4, S-311-P-10).
Creator: Reference Only, NASA Document
Collection: NEPP

Microsoft Word - Final Report - Vol. Ldoc - 10.5MB
 39%
 + Find Similar
Description: The plan for the test series was to demonstrate safe operation of the Pratt & Whitney High Pressure Fuel Turbopump (HPFT/AT) at the High-Pressure Fuel Turbine discharge temperature (HPFT DS T) redline values. At engine start...
Collection: LLIS

PPL-21 Notice 1 - 1.2MB
 39%
 17 Jun 03
 + Find Similar
Description: 1 PPL-21(OSFC) Notice 1 May 1996 OSFC Preferred Parts List To ALL HOLDERS OF OSFC PPL-21 1. THE FOLLOWING PAGES OF PPL-21 HAVE BEEN REVISED AND SUPERSEDE THE PAGES LISTED: NEW PAGE DATE SUPERSEDED PAGE DATE (v-a May 1996 NEW PAGE...
Creator: Reference Only, NASA Document
Collection: NEPP

<http://ccforum.com/content/pdf/cc1890.pdf> - 1.7MB
 39%

Finding Solutions (continued)

+ Home

Find It @ NASA

+ SIMPLE SEARCH

+ ADVANCED SEARCH

+ CATEGORY SEARCH

+ SEARCH TIPS

+ POPULAR SEARCH TERMS

+ MULTIMEDIA SEARCH

SIMPLE SEARCH

Enter Search Term:

mars exploration

+ GO

BEST BETS

Structures

[Chandra Home Page](#)

[NASA Home Page](#)

[JPL Home Page](#)

[Education Home Page](#)

NEN Community

[chandra Home Page - Description](#)

[NASA Home Page - Description](#)

[JPL Home Page - Description](#)

[Education Home Page - Description](#)

RESULTS

Documents: 1 - 10 of 200 returned, 57633 hits

+ Prev 1 2 3 4 5 + Next

Mars Exploration Curriculum Integration Ideas

Mars Exploration Curriculum is a science curriculum for students in grades 4-12. It is designed to connect students with NASA's current Mars research and uses actual data collected from the ten spacecraft NASA plans to send to...

<http://mars.jpl.nasa.gov/education/modules/webpages/integrationideas.htm> - 13KB

99% 14 Dec 99

+ Find Similar

+ Highlighted

NEN searches may lead to community of expert practitioners

NASA National Aeronautics and Space Administration

Inside NASA

You are logged in as Manson View

Home Business Centers Education Employees Engineers Emergency Operations Managers Program/Project Management News & Library Help & Feedback Portal Metrics Usability Study My Pages

Dev LLC Demo Engineering Management Board Nondestructive Evaluation Knowledge Management Software Engineering Structures

Welcome (Structures)

Read: [What is Structures?](#)

Read: [History Page](#)

Lead Facilitator: [Gregory L. Williams@jpl.nasa.gov](#)

Co-Facilitator: [Karl S. Murphy@jpl.nasa.gov](#)

Expert Biographies (Structures)

Suggestions (Structures)

Search Engineering Repositories

Structures Document Archive (New IAR)

Engineering Standards

Announcements (Structures)

What's HOT (Structures)

Click to View "Greybeard Advice"

Structures Document Archive (New IAR)

Engineering Standards

Discussion Board (Structures)

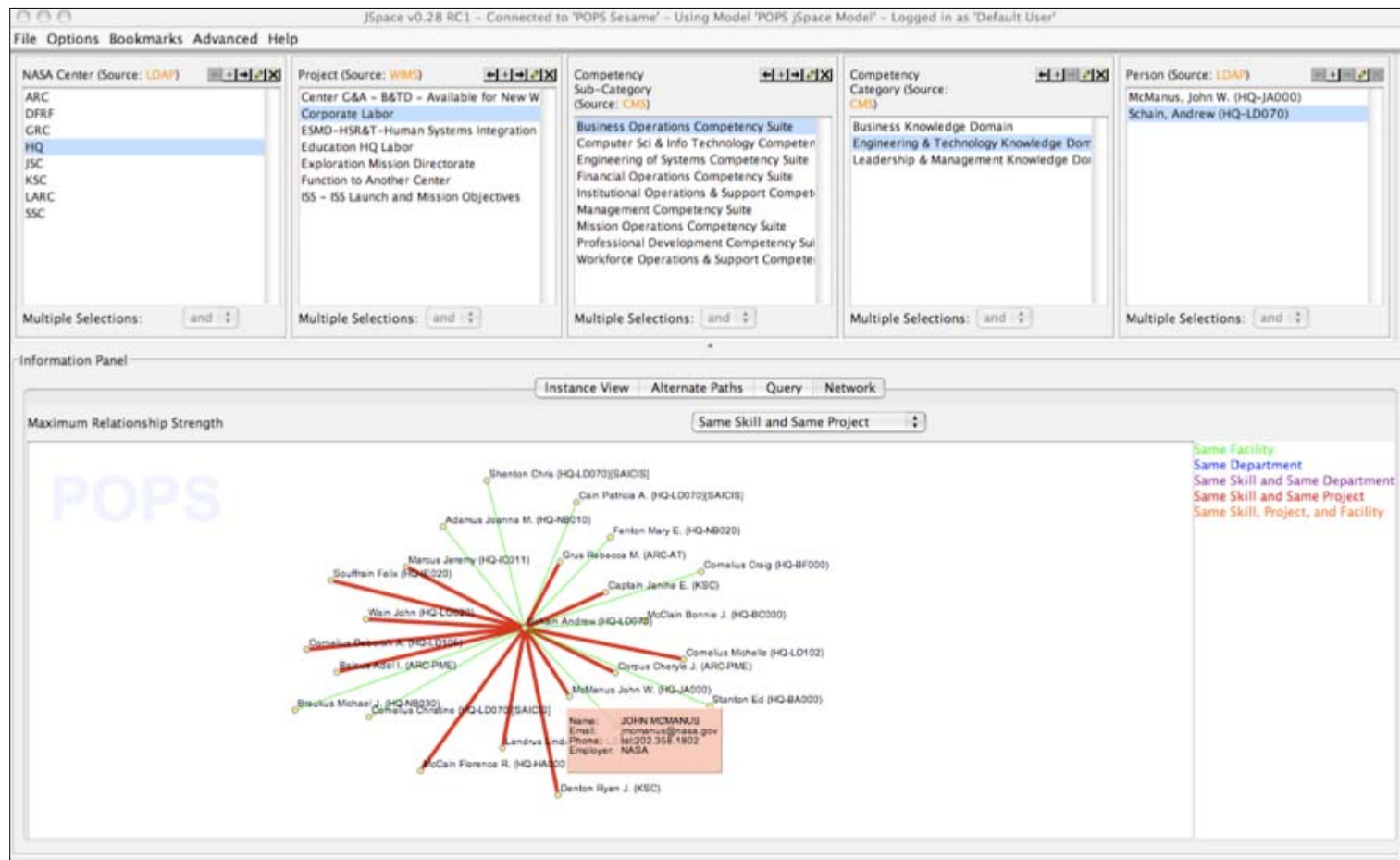
Calendar (Structures)

Structures Quick Links

Engineering Associations (Structures)

Finding Solutions (continued)

NEN communities provide a variety of expert locator tools



Disseminating Lessons and Best Practices

Inside NASA
your portal to the NASA intranet

You are logged in as Manson Yew

Site Map | My Account | Logout

Home Business Careers Education Employees Engineers Emergency Operations Managers Program/Project Management News & Library Help & Feedback Portal Metrics Usability Study My Pages

Dev LLSC Demo Engineering Management Board Nondestructive Evaluation Knowledge Management Software Engineering Structures

Welcome (Structures)

Welcome to the Structures Community of Practice. We welcome your comments, suggestions, and questions.

— Ivatury Raju

Contact: [Ivatury Raju](#)

Read: [Biography](#)

Read: [What is Structures?](#)

Please Email Your Feedback to:

Lead Facilitator: [Gregory L. Williams@jpl.nasa.gov](#)

Co-Facilitator: [Ken S. Murphy@jpl.nasa.gov](#)

Announcements (Structures)

Current New Mine Pending All

+ What's New

- Please Stop-In and Ask Questions of Our Structures Subject Matter Experts, and/or Feel Free to Contribute Your Own Lessons Learned and Structures Feedback

- Check out the New Structures Experts Biographies and Contact Information (Click in the Expert Biographies Portlet)

- Check out the New Structures Standards Key Docs. with Titles & Descriptions

+ Upcoming

- Stay Tuned for Next SPRT Monthly Telecon upcoming in January 2007

- VPN Access for Off-Site Structure Experts is Progressing Well With Over Half of the Off-Site Structures SPRT Experts Having Completed Their Access Request Forms

Nov 30, 2006

Nov 30, 2006

Prev | 1-2 | Next »

Discussion Board (Structures)

Forum (1-5 of 13) Msgs Last Post

Verified Mathematical Models of Newer Materials and Fabrication Forms 1 10/24/2006 3:04 PM

Resolution of How to Determine delta kth for Metal Structures 1 10/24/2006 3:03 PM

Small Crack Fatigue Life Assessment for Metal Structures 1 10/24/2006 3:03 PM

Monitoring 1 10/24/2006 3:02 PM

Processes for Developing and Verifying Credible Engineering Models 1 10/24/2006 3:02 PM

All Forums | Manage Forums

Expert Biographies (Structures)

Click here for a list of Biographies and Contact Information to Key Experts Within the Structures Community.

Suggestions (Structures)

Let us know what you think! Click on the button below to make a suggestion.

Suggestion refers to...

☐ Make this anonymous

Submit View Suggestions

What's HOT (Structures)

Advice for New Engineers

The members of the Structures SPRT have listed the mythical "three pieces of ψ would like to give to young people (rookies) who are starting to work in our field.

The following entitled "Greybeard Advice" is the sampling that was submitted. I file, we have listed the advice in the order received. We have NOT edited or doctored omitted (even spelling). We formatted it for consistency throughout the document.

Click to View "Greybeard Advice"

Structures Document Archive (Non-ITAR)

Type	Title	Qtd	Size
<input type="checkbox"/>	Archive - 2005 and Earlier	gk/9/06	24
<input type="checkbox"/>	Bob Ryan	gk/9/06	5
<input type="checkbox"/>	Bob Ryan's Papers	gk/4/06	3
<input type="checkbox"/>	Photos	gk/9/06	3
<input type="checkbox"/>	Presentations	gk/9/06	2
<input type="checkbox"/>	Seminars	gk/2/06	19
<input type="checkbox"/>	Standards	gk/9/06	87 KB
<input type="checkbox"/>	Greybeard Advice	gk/9/06	6 MB
<input type="checkbox"/>	Photo Album.ppt	gk/7/06	61 KB
<input type="checkbox"/>	SPRT Minutes - October 11		

Engineering Standards

NASA Technical Standards Program

Calendar (Structures)

End User Administrator Only

Events

« December 2006 »

S	M	T	W	T	F	S
						1 2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

New Event Today's Events

Structures Quick Links

- ABAQUS, Inc.
- Acronym Central
- SAE Aerospace Standards
- Finite Element Analysis Information
- FEMCI (Finite Element Modeling Continuous Improvement)
- NASTRAN (NASA Structural Analysis)

Engineering Associations (Structures)

- American Institute of Aeronautics and Astronautics

Discussions on key topic areas

Experts' advice

Key community documents

Engineering standards

Disseminating Lessons and Best Practices (continued)

The screenshot displays the NASA Engineering Network (NEN) website. The top navigation bar includes links for Home, Business, Centers, Education, Employees, Engineers, Emergency Operations, Managers, Program/Project Management, News & Library, Help & Feedback, Portal Metrics, Usability Study, and My Pages. The main content area is divided into several sections:

- Welcome to LLSC:** A welcome message from Gena Henderson, Lead Facilitator, with contact information.
- What's Happening in Lessons Learned:** A section for the LLSC Monthly Telecon, including a calendar and a list of events.
- Data Manager Control:** A section for managing lessons learned, including a login form and a list of lessons.
- Submit a Lesson Learned:** A section for submitting lessons learned, including a form and a list of lessons.
- Apollo Experience Reports:** A section for viewing Apollo experience reports.
- Search Formal Lessons Learned:** A section for searching formal lessons learned.
- Key Documents:** A table listing key documents, including Lesson Learned Documents, Lesson Learned Handbooks, NEN Documents, NEN Issues Tracking, Project Documents, Training Documentation, and Draft Lessons Learned Steering Committee Charter.
- Latest Lessons Learned:** A section for the latest lessons learned, including two entries: '07/27/2006 - Lessons Learned Entry: 1764 - 33KB' and '07/24/2006 - Lessons Learned Entry: 1757 - 7KB'.

A red circle highlights the 'Latest Lessons Learned' section, and a red arrow points from the text 'Push relevant lessons learned to communities' to the 'Submit a Lesson Learned' section.

Push relevant lessons learned to communities

History of Lessons Learned

NASA ENGINEERING NETWORK

FIND IT? MEN - + GO
 + ADVANCED SEARCH

+ Contact Net
 + Edit Profile

+ ABOUT NASA
+ ENGINEERING COMMUNITIES
+ LESSONS LEARNED
+ ENGINEERING RESOURCES
+ ENGINEERING SEARCH

+ Home

Find Engineering Resources By

- + NASA CENTERS
- + MISSION DIRECTORATES
- + TOPICS
- + YEAR
- + COLLECTION
- + SAVED LESSONS
- + MY SUBSCRIPTIONS

Applying Past Knowledge for Current and Future Mission Success

NASA ENGINEERING NETWORK

IF IT'S NOT SAFE, SAY SO!

+ Home

Find Engineering Resources By

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- + MISSION DIRECTORATES
- + TOPICS
- + YEAR
- + COLLECTION
- + SAVED LESSONS
- + MY SUBSCRIPTIONS

Welcome to the NASA Engineering Network (NEN) as listed below. View search engine to seek

LATEST LESSONS LEARNED

07/27/2006 - Lessons Learned Failure Mode Assessment for C Each Field Center conducts an document the principal intent to + Read More
 Subject: Critical Facilities Mari NASA Organization: JPL Collection: LLIS

07/24/2006 - Lessons Learned The facility manager at the end pipe that had been part of the p longer used so he had been tol + Read More

[FIND IT? MEN](#)
[ADVANCED SEARCH](#)
[Contact Net](#)
[Edit Profile](#)

+ View formal lessons learned

WELCOME TO MY NEN

You are logged in as
Manson Yew

+ Edit Profile

+ LOG OUT

FIND IT? MEN
[ADVANCED SEARCH](#)
[Contact Net](#)
[Edit Profile](#)

ABOUT NASA | **ENGINEERING COMMUNITIES** | **LESSONS LEARNED** | **ENGINEERING RESOURCES** | **ENGINEERING SEARCH**

+ Home

Find Engineering Resources By

- + NASA CENTERS
- + MISSION DIRECTORATES
- + TOPICS
- + YEAR
- + COLLECTION
- + SAVED LESSONS
- + MY SUBSCRIPTIONS

LESSONS LEARNED

Lesson Entry: 1717

Lessons Info:

- Lesson Number: 1717
- Lesson Date: 2006-12-18
- Submitted by: David Overmeyer
- PDC Name: Robert Manning
- PDC Email: Robert.Manning@jpl.nasa.gov
- PDC Phones: 818-383-7815

Subject:

If You Didn't Understand an Event, Provide "Yield Blame?" Capabilities to Encompass the West of Case

About:

Mars Exploration Rover designers responded to a high level of uncertainty regarding Martian winds by providing a set of small, sideways-pointing rockets and adding a capability to directly sense horizontal motion. This redesign to reduce the risk that the lander would gain Mariner landing during the landing was made only 1.5 years before launch. Assess rigorous assessment of environmental risks, and design to counter the critical risks with substantial margin.

Description of Driving Event:

The entry and descent of Mars Exploration Rover (MER), and its landing on Mars, were accomplished with limited knowledge of local environmental conditions. Reference (1) discusses our prior insights into Mars atmospheric density, and builds the flexible MER flight system and mission design features that successfully responded to new, crucial density data received during the latter stages of Mars Encounter.

MER engineers faced a similar knowledge deficit in regard to Martian wind velocity and effects. The estimate of Martian winds used in the July 1997 entry, descent, and landing (EDL) plan for Mars Pathfinder was based upon the altitude-specific reference record of daily winds and atmospheric pressure at Kennedy Space Center in Florida. The Earth site was considered to be conservative, and it was the most comprehensive dataset available. Seven years later, MER EDL planning benefited from new models of the local effects of known Mars terrain features on actual postulated Martian wind conditions. However, these models had never been validated with actual Martian weather!

Figure 1 - AFD wind speed roseplot visualization of last stand entry.
+ View Video

Figure 2 - Animations showing VAD and AFD wind direction vectors.
+ View Video

Point of Contact (if different to user submission)

First Name:

Last Name:

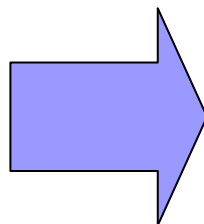
Phone Number: (XXX-XXX-XXXX)

Email Address:

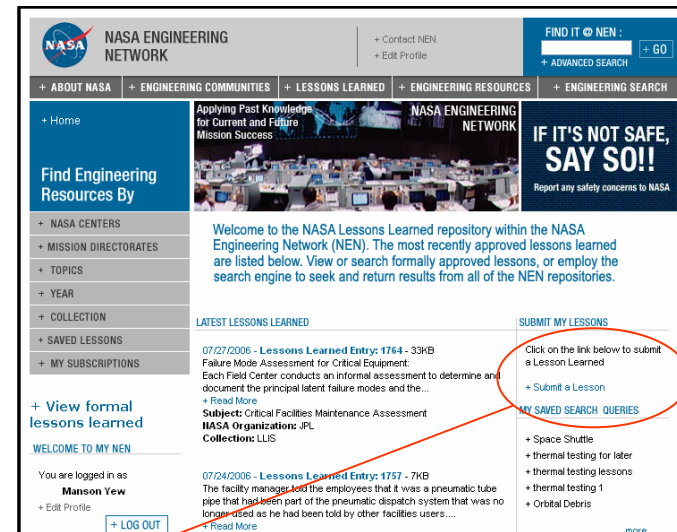
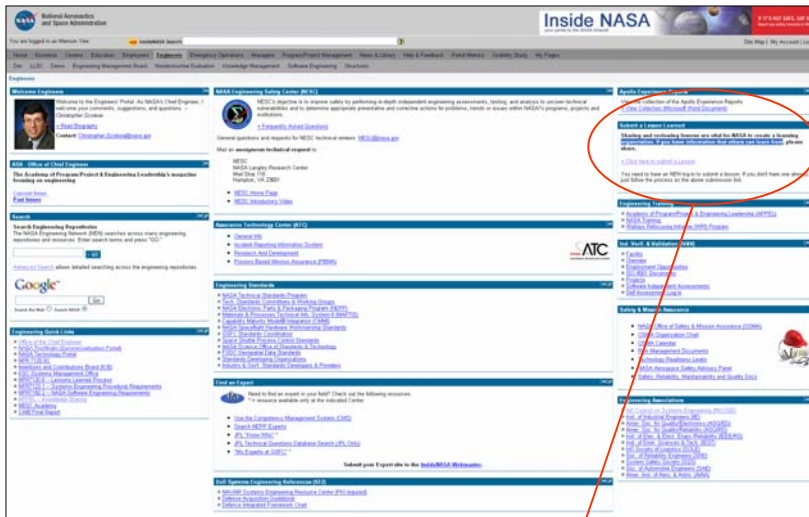
- In 1992, the paper-based Lessons Learned system developed
- Web-based system development began in 1994,
 - Prototype web-based system was rolled out in 1995
 - System went live agency wide in 1996
- In 2002, under the Freedom of Information Act, the public Lessons Learned web site was developed
- Next LLIS was developed (and active) in 1996 until November 2005
- LLIS in NASA Engineering Network (current)

Lessons Learned (LL) Best Practice

- Integrate lessons to policy, standards, and procedures
- Embed a “how to” capture process
 - Review LL at major milestones, technical reviews and other decision points
 - Determine lessons relevancy to project
 - Assess project compliance with LL recommendations



Capturing and Sharing Lessons



NASA ENGINEERING NETWORK

Find Engineering Resources By

Submit a Lesson

Lesson Details > Lesson Metadata > Lesson Supporting Material

Please enter the information below. Clicking on the "Next Step" button at the bottom of the page will save the information you have entered and take you to the next step. If you choose to complete the lesson at a later time you may retrieve this lesson from the "Saved Lessons" page. Please do not use the browser's "Back" button during the lesson submittal process. As you complete each step in the process, the Lesson detail line above will enable you to navigate back to the steps that have been completed. **This form will timeout in 30 minutes**

Fields marked with * are mandatory

Submitted By:
First Name: Last Name:

Submitter's Phone Number: (XXX-XXX-XXXX)

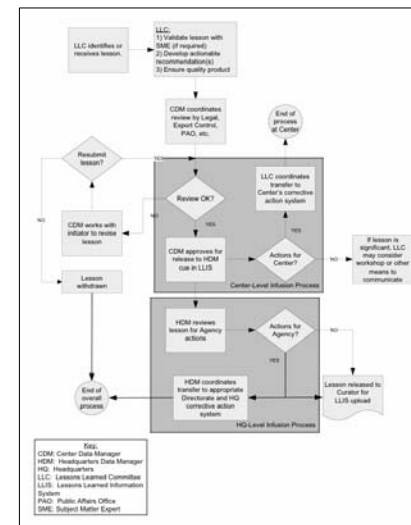
Submitter's Email Address: myew@jpl.nasa.gov

Point of Contact (if different from submitter):
First Name: Last Name:

Phone Number: (XXX-XXX-XXXX)

Email Address:

Multiple entries to the same submission form and workflow controlled lessons learned process



Disseminating Lessons and Best Practices

- Training
- Technical fellows
- Portal Discussion Forums
- Local Center level processes and workflows
- Center level newspapers and bulletins
- OCE Weekly notes
- NEN LL features (push)



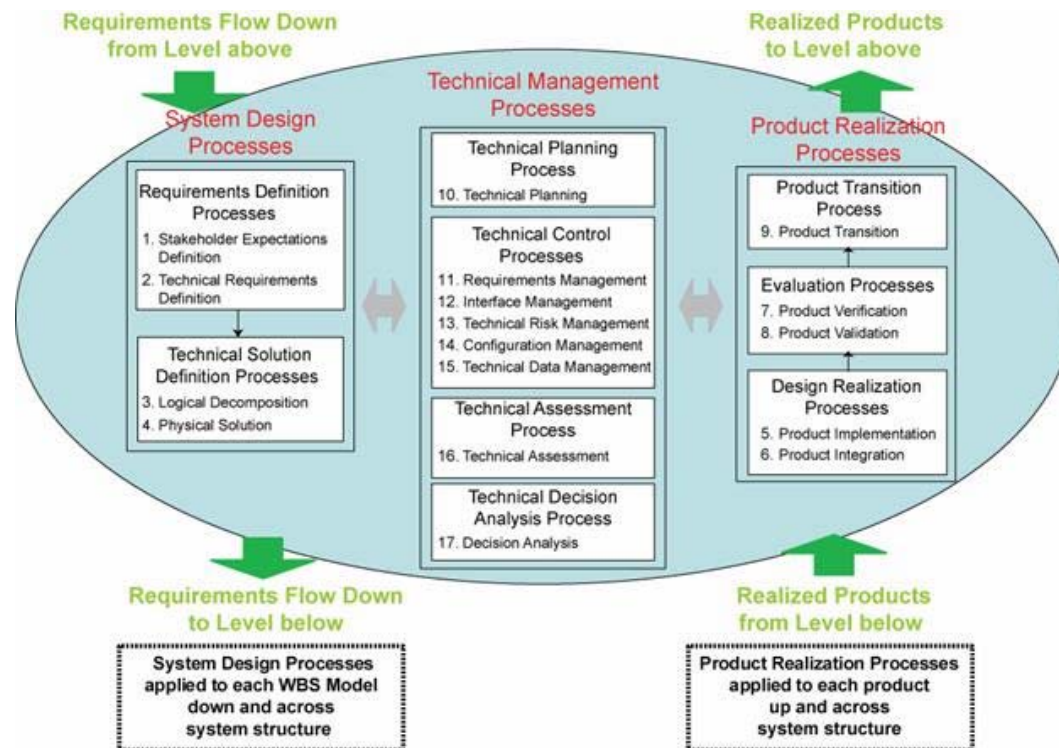
Policy Makers Embedding Lessons into Processes

The screenshot displays the NASA Engineering Network (NEN) homepage. The top navigation bar includes links for Home, Business, Careers, Education, Employees, Engineers, Emergency Operations, Managers, Program/Project Management, News & Library, Policy & Feedback, Portal Home, Usability Study, and My Pages. The main content area is divided into several sections: a welcome message from the System Engineers' Portal, a list of community members, a calendar, and a central diagram illustrating the Systems Engineering process. The diagram shows a flow from Requirements Flow Down to System Design, which then leads to Product Realization. A red circle highlights the 'Key Documents' section at the bottom right, which lists 'Key Documents', 'Systems Engineering Handbook Team', and 'Calendar (SE)'.

NASA System Engineering Handbook rewrite team using NEN to collaborate among 60+ subject matter experts

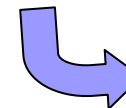
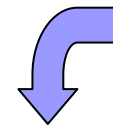
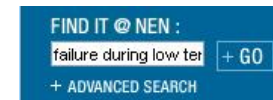
Spotlight on Systems Engineering

- Systems Engineering Handbook Update (SP 6105)
 - Systems Engineering Engine
 - Processes
 - New Special Topic: Lessons Learned and Knowledge Management



Focus on System Engineering Practitioners

- Main users
- Main contributors
 - Record LL as
 - Historical documents
 - Requirement rationales
 - Supporting data analyses
 - Demonstrate relevancy
 - Utilization
 - Management
 - Creation
 - Storage of lessons learned





Applications of the LL Best Practice

- Utilization
 - Demonstrate hypotheses and conclusive insights from previous projects and processes
 - Determine previous lessons from processes or tasks that impact risks
- Management
 - Where to capture
 - Start of project
 - As it unfolds
 - End, hinders use of and evolution of
 - When to capture
 - Key decision points
 - End of life cycle phases (Phase control gate cues)
 - Technical reviews
 - How to overcome
 - Monthly lesson briefings
 - Periodic Agency sharing forums

Applications of the LL Best Practice (continued)

- Creation
 - Relevancy to mission success
 - Relevancy to project
 - Unique in the Agency
- Storage
 - Driving Events
 - Lessons Learned
 - Recommendations



For More Information

- Manson Yew, (818) 354-4528, myew@jpl.nasa.gov